



# CORPUS CHRISTI-NUECES COUNTY PUBLIC HEALTH DISTRICT RESPONSE TO **ZIKA**

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Council Presentation  
June 14, 2016



# Zika Virus



Primarily spread to humans through the bite of an *Aedes aegypti/albopictus* mosquito infected with Zika virus

Infected mosquitos can spread the Zika virus by biting a human

Reported to spread through sexual contact

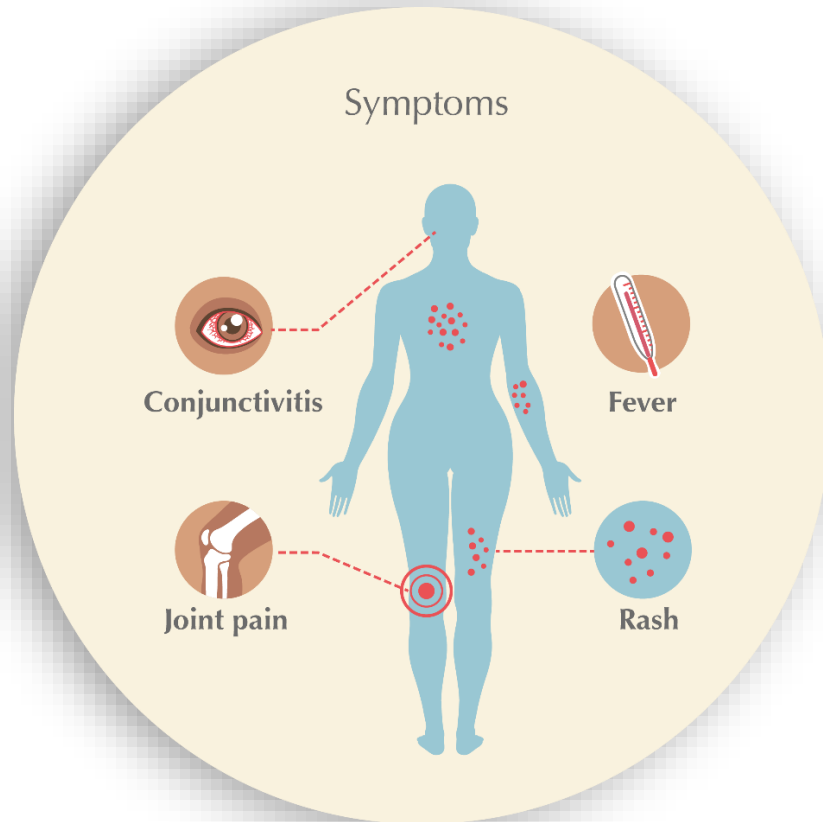


# Zika Symptoms



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Most common symptoms of Zika are mild:



- Fever
- Rash
- Joint pain
- Conjunctivitis (red eyes)
- Muscle pains
- Headaches

Diagnosis and testing for Zika is based on:

- Recent travel history
- Symptoms
- Results of blood tests

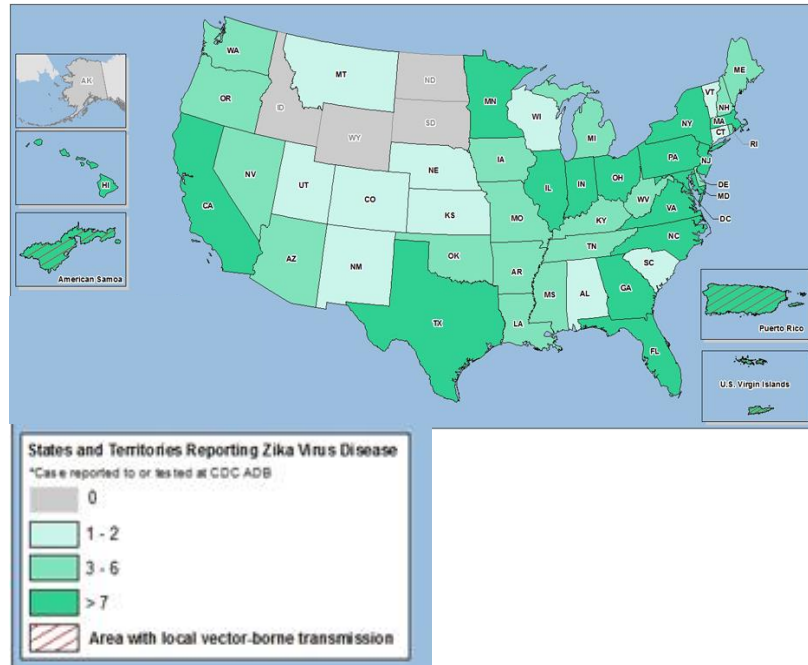


# Zika Virus Cases



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Texas has had **40+** confirmed cases of Zika virus disease



**40** were in travelers infected abroad and diagnosed after returning home

**1** case involved a Dallas County resident who had sexual contact with someone who acquired the Zika infection while traveling abroad

Case counts by county:

- |                |               |
|----------------|---------------|
| Bexar – 6      | Grayson – 1   |
| Collin – 1     | Harris – 13   |
| Dallas – 6     | Ellis – 1     |
| Denton – 2     | Tarrant – 4   |
| Fort Bend – 2  | Travis – 2    |
| Wise – 1       | Val Verde – 1 |
| Williamson – 1 | Nueces – 0    |



# Zika Effects on Pregnancy



Zika in pregnancies may cause:

Microcephaly - Birth defect in which a baby's head is smaller than expected when compared to babies of the same sex and age

Infection will not affect future pregnancies

Baby with Typical Head Size



Baby with Microcephaly





# Zika Treatments



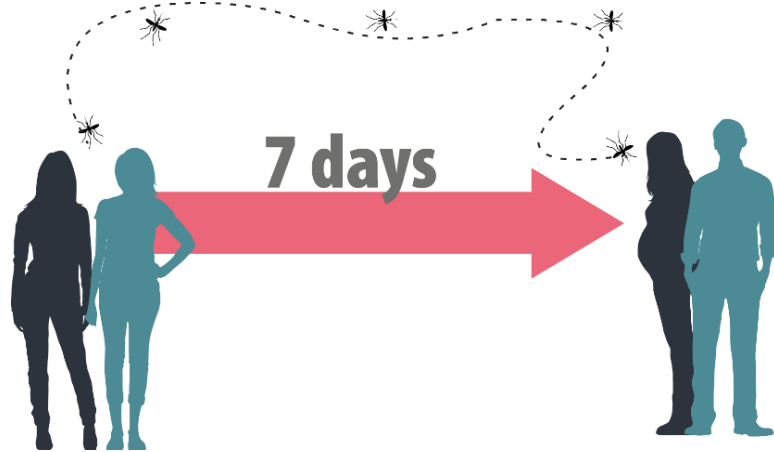
There are no vaccines for Zika virus

Compassion Therapy

Treat symptoms not the disease



# Zika Prevention



During the first week of illness, Zika virus can be found in blood

If a mosquito bites the person, it becomes infected and can pass the infection to others

Protect yourself from mosquito bites:  
**“Don’t Give Zika a Biting Chance”**



# City Vector Control: Response to Detection of Zika, Dengue, Yellow Fever and Chickungunya Viruses



The response to these viruses will be based upon the method of detection:

1. Human host arriving from area known to have outbreak of virus with confirmation through medical facility and Nueces County Health Department
2. Confirmation through surveillance, collection and testing of *Ae. aegypti* or *Ae. albopictus* mosquito.

Human host with confirmation of virus:

- Set up surveillance within one block radius of host house using the BG Sentinel traps and monitor for two consecutive weeks.
- Go door to door, in surrounding two block radius, disseminating Vector Pamphlets on Arbovirus prevention.
- Seek permission to inspect yards for standing water and treat with larvacide.

Confirmation through collection and testing:

- Set up surveillance within one block radius of detection site using BG Sentinel traps and continue to monitor for two consecutive weeks.
- Go door to door, in surrounding two block radius, disseminating Vector pamphlets on Arbovirus prevention.
- Seek permission to inspect yards and treat with larvacide.
- Spray three consecutive evenings with Envion in 1/2mile radius of detection site.





# Health District Efforts



Working with partners to:

Educate healthcare providers and the public about Zika

Disseminate travel notices and other travel-related guidance through social media, etc.

Train Health District & Hospital staff on Zika signs and symptoms

Passive Surveillance; Monitor and report cases

Active Surveillance; Support mosquito control efforts working with city and county Vector Control Programs (syndromic surveillance)

Provide guidance on sample submission for diagnostic tests

Create & Update plans to improve Zika preparedness



# Health District Efforts



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## Coastal Bend Medicine

A PUBLICATION OF THE NUECES COUNTY MEDICAL SOCIETY  
MARCH/APRIL 2016



### Mosquito Zoonosis in Texas - 2016

Prevention is Key in the Battle Against Mosquito Borne Diseases

Why EMR is Hurting the Quality of Medicine



### FEATURE ARTICLE



### PREVENTION IS KEY IN THE BATTLE AGAINST MOSQUITO BORNE-DISEASES

By Dante Gonzalez, PhD  
Public Health Administrator - Protection Division  
Corpus Christi-Nueces County Public Health District

One of the priorities of a Health District is to develop strategies that will assist in maintaining a healthy community. The best possible mechanism to accomplish this goal is to educate and provide up-to-date information to the community on prevention. If the public is educated on how to prevent diseases by proactively reducing the risk of transmission and infection then the Health District has done its job. So far, the Health District in collaboration with other agencies, have done our job of preventing outbreaks that have threatened the health of our

virus to make any hypothesis at the time. It wasn't until recently where it was observed that during periods of Zika Disease outbreaks in Brazil there were also parallel increased numbers of microcephaly diagnosis. Microcephaly is a birth defect that affects the development of the brain at the fetal stage or following birth and could lead to seizures, developmental delays, intellectual disabilities, motor skill problems, hearing loss, and vision problems.

### Corpus Christi-Nueces County Public Health District presents **ZIKA Fair**



Mosquito season in Nueces County is right around the corner. Staying informed about Zika is the first step towards prevention. Come learn more about the Zika Virus and other high consequence pregnancy risk factors.

There will be information on

- Hand washing
- Quit Smoking classes
- Pre Natal Care
- Women Infant & Children's Program
- Food Safety
- Is Zika transmitted sexually
- Immunizations
- Women's Health Services
- Nurse Family Partnership
- Vector Control
- Health Education
- Mosquito Bite Prevention

**Free Diabetes and  
Blood Pressure  
Screenings!**

**Friday, March 25,  
2016  
9 a.m. to 3 p.m.  
1702 Horne Road**



For more information please call  
361-826-7200



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Twitter: [@ccpublichealth](https://twitter.com/ccpublichealth)

Facebook: [www.facebook.com/ccpublichealth](https://www.facebook.com/ccpublichealth)

Health District: <http://www.cctexas.com/government/health-district/index>



# Health District Recommends: Reducing the risk of exposure



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- 1) **Avoid travelling to countries with Zika outbreaks**
- 2) **Keep mosquitos outside**
- 3) **Get rid of standing water**
- 4) **Create a barrier between you and mosquitos -Insect repellent containing DEET, Picardin, Etc.**
- 5) **Protect pregnant females, partners, and babies**



# Questions



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You can always reach the Health District

Zika Hotline and Up-to-date information:  
361-826-7204

Twitter: [@ccpublichealth](https://twitter.com/ccpublichealth)

Facebook: [www.facebook.com/ccpublichealth](https://www.facebook.com/ccpublichealth)

Health District: <http://www.cctexas.com/government/health-district/index>